AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing Of Claims:

1.-6. (Canceled)

7. (New) A method for transmitting a data block from a data source to a data sink on a bus that supports a transmission of a frame having a variable and limited number n of data elements, comprising:

transmitting, from the data sink to the data source, control information that specifies at least a number N of data elements contained in a block to be transmitted;

if N > n, transmitting int (N/n) frames, each containing n data elements of the block to be transmitted and transmitting a frame having $(N \mod n)$ data elements of the block to be transmitted from the data source to the data sink, int (N/n) being the largest integer which is less than or equal to N/n;

recognizing the transmission of the block as complete by the data sink if the number of data elements received in the step of transmitting int (N/n) frames agrees with the number N specified in the control information.

- 8. (New) The method as recited in Claim 7, wherein if N = n, the data source transmits a single frame having N data elements, and the data sink recognizes the block as complete already after receiving the single frame.
- 9. (New) The method as recited in Claim 7, wherein the data source transmits the block at a point in time specified in the control information.
- 10. (New) The method as recited in Claim 7, wherein the data source forms the block from a plurality of parameters specified in the control information.
- 11. (New) The method as recited in Claim 7, wherein the bus is a CAN bus.
- 12. (New) The method as recited in Claim 7, wherein the method is used in a development environment for a controller circuit, the data source being the controller circuit and the data sink being a host computer.

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